

SECTION V  
APPENDIX A – WATER SYSTEM DATA SHEET

DATE: 06/06/2022

Plan #: 22-008

PROJECT NAME: Greenwood Village (Phase 1)

PROJECT LOCATION (Lat-Long): N37.251147, W76.6775841

PLANS PREPARED BY: Timmons Group, Jack Bloom, PE

Note: The values noted below only include the infrastructure built during this phase.

**PROJECT SERVICE AREA DESIGN CONDITIONS:**

Connection Type	Number of Connections	Average Day		Maximum Day	
		GPD/Connection	GPD	GPD/Connection	GPD
Residential Townhome	21	310	6,510	527	11,067
Commercial					
Industrial					
Other Condo (identify)	2	3,100	6,200	5,270	10,540
<b>TOTAL</b>	<b>23</b>	<b>3,410</b>	<b>12,710</b>	<b>5,797</b>	<b>21,607</b>

Pipe Size	Pipe Length	Pipe Material
8"	1,091 FT	Ductile Iron
4"	31 FT	Ductile Iron
6"	10 FT	Ductile Iron

**HYDRAULIC EVALUATION OF THIS PROJECT:**

Flows		Minimum Pressure
Peak Hour Demand	36.08 GPM	54.20
Maximum Day Demand	15.17 GPM	54.21
Design Fire Flow	1,500 GPM	
Maximum Day + Fire Flow	1,515.17 GPM	20
No. of Fire Hydrants	1	

SECTION VI  
APPENDIX B – SANITARY SEWER SYSTEM DATA SHEET

DATE: 06/06/2022

Plan #: 22-008

PROJECT NAME: Greenwood Village (Phase 1)

PROJECT LOCATION (Lat-Long): N37.251147, W76.6775841

PLANS PREPARED BY: Timmons Group, Jack Bloom, PE

Note: The values noted below only include the infrastructure built during this phase.

**PROJECT SERVICE AREA DESIGN CONDITIONS:**

Connection Type	Number of Connections	Average Flow		Peak Flow	
		GPD/Connection	GPD	GPD/Connection	GPD
Residential Townhome	21	310	6,510	775	16,275
Commercial					
Industrial					
Other Condo (identify)	2	3,100	6,200	6,200	15,500
<b>TOTAL</b>	<b>23</b>	<b>3,410</b>	<b>12,710</b>	<b>6,975</b>	<b>31,775</b>

(gravity sewer or force mains only – do not include service laterals)

Pipe Size (in)	Pipe Length (LF)	Pipe Material
8"	579	Ductile Iron
8"	401	PVC
6"	48	Ductile Iron

Manhole Size	Number	Average Depth (ft)
Standard (48" diameter)	9	6
60" diameter	2	15
Cleanouts	23	

RECEIVING PUMP STATION: 16 - Quarterpath Central



SECTION V  
APPENDIX A – WATER SYSTEM DATA SHEET

DATE: 06/06/2022

Plan #: 22-008

PROJECT NAME: Greenwood Village (Phase 2)

PROJECT LOCATION (Lat-Long): N37.251147, W76.6775841

PLANS PREPARED BY: Timmons Group, Jack Bloom, PE

Note: The values noted below only include the infrastructure built during this phase.

**PROJECT SERVICE AREA DESIGN CONDITIONS:**

Connection Type	Number of Connections	Average Day		Maximum Day	
		GPD/Connection	GPD	GPD/Connection	GPD
Residential Townhomes	39	310	12,090	527	20,553
Commercial					
Industrial					
Other Condo (identify)	1	5,580	5,580	9,486	9,486
<b>TOTAL</b>	<b>40</b>	<b>5,890</b>	<b>17,670</b>	<b>10,013</b>	<b>30,039</b>

Pipe Size	Pipe Length	Pipe Material
8"	1,352 FT	Ductile Iron
4"	10 FT	Ductile Iron
6"	17 FT	Ductile Iron

**HYDRAULIC EVALUATION OF THIS PROJECT:**

Flows		Minimum Pressure
Peak Hour Demand	86.24 GPM	54.18
Maximum Day Demand	36.26 GPM	54.20
Design Fire Flow	1,500 GPM	
Maximum Day + Fire Flow	1,536.26 GPM	20
No. of Fire Hydrants	2	

SECTION VI  
APPENDIX B – SANITARY SEWER SYSTEM DATA SHEET

DATE: 06/06/2022

Plan #: 22-008

PROJECT NAME: Greenwood Village (Phase 2)

PROJECT LOCATION (Lat-Long): N37.251147, W76.6775841

PLANS PREPARED BY: Timmons Group, Jack Bloom, PE

Note: The values noted below only include the infrastructure built during this phase.

**PROJECT SERVICE AREA DESIGN CONDITIONS:**

Connection Type	Number of Connections	Average Flow		Peak Flow	
		GPD/Connection	GPD	GPD/Connection	GPD
Residential Townhomes	39	310	12,090	775	30,225
Commercial					
Industrial					
Other Condo (identify)	1	5,580	5,580	13,950	13,950
<b>TOTAL</b>	40	5,890	17,670	14,725	44,175

(gravity sewer or force mains only – do not include service laterals)

Pipe Size (in)	Pipe Length (LF)	Pipe Material
8"	1,204	Ductile Iron
8"	649	PVC

Manhole Size	Number	Average Depth (ft)
Standard (48" diameter)	15	6
60" diameter	1	17.34
Cleanouts	41	

RECEIVING PUMP STATION: 16 - Quarterpath Central



SECTION V  
APPENDIX A – WATER SYSTEM DATA SHEET

DATE: 06/06/2022

Plan #: 22-008

PROJECT NAME: Greenwood Village (Phase 3)

PROJECT LOCATION (Lat-Long): N37.251147, W76.6775841

PLANS PREPARED BY: Timmons Group, Jack Bloom, PE

Note: The values noted below only include the infrastructure built during this phase.

**PROJECT SERVICE AREA DESIGN CONDITIONS:**

Connection Type	Number of Connections	Average Day		Maximum Day	
		GPD/Connection	GPD	GPD/Connection	GPD
Residential Townhomes	35	310	10,850	527	18,445
Commercial					
Industrial					
Other Condo (identify)	2	2,790	5,580	4,743	9,486
<b>TOTAL</b>	<b>37</b>	<b>3,100</b>	<b>16,430</b>	<b>5,270</b>	<b>27,931</b>

Pipe Size	Pipe Length	Pipe Material
8"	1,442 FT	Ductile Iron
4"	56 FT	Ductile Iron
6"	51 FT	Ductile Iron

**HYDRAULIC EVALUATION OF THIS PROJECT:**

Flows		Minimum Pressure
Peak Hour Demand	121.44 GPM	54.15
Maximum Day Demand	55.87 GPM	54.19
Design Fire Flow	1,500 GPM	
Maximum Day + Fire Flow	1,555.87 GPM	20
No. of Fire Hydrants	3	

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Plan #: 22-008

PROJECT NAME: Greenwood Village (Phase 3)

PROJECT LOCATION (Lat-Long): N37.251147, W76.6775841

PLANS PREPARED BY: Timmons Group, Jack Bloom, PE

Note: The values noted below only include the infrastructure built during this phase.

**PROJECT SERVICE AREA DESIGN CONDITIONS:**

Connection Type	Number of Connections	Average Flow		Peak Flow	
		GPD/Connection	GPD	GPD/Connection	GPD
Residential Townhomes	35	310	10,850	775	27,125
Commercial					
Industrial					
Other Condo (identify)	2	2,790	5,580	6,975	13,950
<b>TOTAL</b>	<b>37</b>	<b>3,100</b>	<b>16,430</b>	<b>7,750</b>	<b>41,075</b>

(gravity sewer or force mains only – do not include service laterals)

Pipe Size (in)	Pipe Length (LF)	Pipe Material
8"	620	PVC
8"	361	Ductile Iron

Manhole Size	Number	Average Depth (ft)
Standard (48" diameter)	10	7
60" diameter	1	9.65
Cleanouts	35	

RECEIVING PUMP STATION: 16 - Quarterpath Central